Hut Pt

Sept/12 –

DAE 23

SEPT 26th – NOV 1st 1912

BRITISH ANTARCTIC EXPEDITION, 1910.

METEOROLOGICAL OBSERVATIONS

TAKEN AT

During 19

By

Position of Station: Lat. Long.

Height of Barometer Cistern above Mean Sea Level feet.

INSTRUMENTS IN USE, AND THEIR CORRECTIONS.

BAROMETER, No. COMPARED WITH STANDARD at , in 19 .

Correction required	add 0.09	Bar. Uncorrected

THERMOMETERS	Therm. No E V Bar. No. 751
Dry Bulb. No.	
Max. in Shade. No.	
Min. in Shade. No.	
Max. in Sun. No.	
Min. on Snow. No.	Therm. Uncorrected
No.	
No.	

WEATHER.—Initials of the Beaufort Notation and Symbols adopted by international agreement for recording phenomena of weather.

Initial	Symbol	Weather
b.		blue sky
c.		detached clouds.
o		overcast.
m.	≡°	mist.
f.	≡	fog.
g.		gloomy.
u.		ugly, threatening.
z.	∞	dust haze or smoke.
v.		unusual visibility.
t.	T	thunder.
l.	<	lightning.
	K	thunderstorm.

Initial	Symbol	Weather
r.	●	rain.
p.		passing showers.
d.		drizzling rain.
e.		wet air without rain falling.
s.	✳	snow.
	+	snow drift.
	⊠	snow lying.*
	←	ice crystals.
h.	▲	hail.
	△	soft-hail.
w.	⌓	dew.
x.	⊔	hoar frost.
	V	silver-thaw. rime.

Initial	Symbol	Weather
	~	glazed frost.
	↗	gale.
q.		squally.
	○	solar corona.
	⊕	solar halo.
	Ψ	lunar corona.
	⊕	lunar halo.
	⌒	rainbow.
	♕	aurora.

* More than half the country in sight round the station covered with snow.

NOTE.—Do not use "h" for haze, nor "sh" for showers.

A line under an initial or the exponent "2," appended to a symbol, denotes intensity thus $\underline{h}$ or $▲^2$ indicates heavy hail, $\underline{≡°}$ indicates light fog or mist.

BEAUFORT WIND SCALE.

Beaufort Number.	Description of Wind.	Equivalent velocity in miles per hour.
0	Calm.	0
1	Light Breeze.	2
2	Light Breeze.	5
3	Light Breeze.	10
4	Moderate Breeze.	15
5	Moderate Breeze.	21
6	Strong Wind.	27
7	Strong Wind.	35
8	Gale forces.	42
9	Gale forces.	50
10	Storm forces	59
11	Storm forces	68
12	Hurricane.	above 75

INSTRUCTIONS.

Barometer.—The aneroid barometer should be lightly tapped before taking a reading.

Hypsometer.—Only pure water obtained from snow to be used. No water should be allowed to splash into the bulb of the thermometer during an observation.

Thermometer.—The aluminium sling thermometer should be allowed to remain in the open for at least ten minutes before a reading is taken in order that the bulb may acquire a temperature near that of the air. When an observation is to be made the thermometer should be opened and swung for a minute; the swinging must then be repeated until three readings have been obtained, each giving the same temperature. The final steady reading should then be entered in the note book.

Wind.—All wind directions must be "true" and not "magnetic"

Clouds.—The proportion of the sky covered by cloud should be indicated on a numerical scale running from 0, cloudless, to 10, completely overcast. The numbers given are to refer solely to the amount of the sky covered and not to the density, height or other quality of the cloud. Fog must be regarded as a cloud at ground level, and 10 must accordingly be entered for the amount of cloud on foggy days. If clouds can be seen through a thin mist, the amount of real cloud should be entered in the column and a note made under "Remarks."

The following are the chief cloud forms:

Cirrus ...	(Ci) ...	High.
Cirro-Stratus	(Ci-St) ...	High.
Cirro-Cumulus	(Ci-Cu) ...	High.
Alto-Cumulus	(A-Cu) ...	High.
Alto-Stratus	(A-St) ...	High.
Strato-Cumulus	(St-Cu) ...	Low.
Cumulus ...	(Cu) ...	Low.
Stratus ...	(St) ...	Low.
Nimbus ...	(Nb) ...	Low.

Enter cloud directions as you would wind directions, *i.e.*, the direction from which they are coming.

Weather.—The Beaufort notation given on page 3 should be used.

Remarks.—Haloes and any unusual phenomena should be noted. It is also desirable that general topographical notes should be added, as for instance, "In valley running N.W.," "To-day's camp higher than yesterday's," etc.

BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.	OBSERVER'S INITIALS.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	CLOUD. Direction from upper	CLOUD. Direction from lower	BRITISH ANTARCTIC EXPEDITION, 1910. REMARKS.	OBSERVER'S INITIALS.
26th Sept	pm 1.40	Hut Point		29.06	–	–12	Ca	–	blue. Clear	1.	St. low			Only stratus over Black Island	E L A
3rd Oct	1.30 pm	"	"	28.89		–14	ESE	7–8	" "	8	St. lower			Drift in patches	E L A
12 Oct	2.30 pm	"		29.14		+2	E	2	o	10	Ci St			Minimum since Oct 3 –18.5 (?). Very thick coming down + is now clearing.	A. C. G.
	8.45 pm	"		29.15		–5.7	–	0	b	3	St			Clear except to S where there is a bank of black cloud.	A. C. G.
	9.30 pm	"				–12.5								The temp dropped rapidly as the sun dipped, but is now rising with Nly wind	A. C. G.
13 Oct.	9.30 am	"		29.10		–14	–	0	o c.	8	Ci St			Minimum 12-13, –20.5. Clear over Bluff. Sound mostly overcast	A. C. G.
	2.30 pm	"		29.05		+0.7	–	0	b c	8	Ci St			Ci St general with thick stratus beyond Cape Evans. Os common during the day	A. C. G.
	9.5 pm	"		28.99		–3.5	SE	Vars	b c	3	Ci St			at 6.30 surface drift here & on Barrier & Glacier Tongue	A. C. G.
14 Oct	8.50 am	"		28.89		–9.5	ESE	6	b c	8	Ci St			Minimum 13-14 –19. High wind during the night.	A. C. G.
	10.20 pm	"		28.74		–9.7	SE	1	o c.	10	Ci St			Wind & surface drift during the day. O's common during the day.	A. C. G.
15 Oct	9.35 am	"		28.76		–9	ESE	3	o	10	St.			Minimum 14-15 –18	

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION. Lat.	Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	Kind	Direction from upper	lower	REMARKS.	OBSERVER'S INITIALS.
15 Oct.	4.15 pm	Hut Point		28.74		−1	ESE	2	bc.	5	ci.st.			O in the morning: drifting heavy surface drift on Barrier. Wind force 6 here.	A.C.G.
	9.00 pm	"		28.76		−3	ESE	3	bc	4	ci.st. + st.cu. [?]			Bank of cloud to S & SE. The cloud rises to take the form of the Bluff	A.C.G.
16 Oct	8.30 am	"		28.71		−2.5	Ely	Ltairs [?]	bc.	7	st.			Stratus from S^thern horizon to zenith. clear over Western Mts. Minimum 15-16, −9	A.C.G.
	1.35 pm	"		28.68		+11.5	ESE	3	o	10	st.			very thick to S. White Island invisible: has been appearance of high drift there.	A.C.G.
	4.15 pm	"		28.69	* ↓	+14	S	8	o	10	st.			blizzard started 2 pm. thick drift. Barometer immediately steadied & is now rising.	A.C.G.
	7.30 pm	"		28.72	* ↓	+14.5	S	8	o	10	st.			thick blizzard.	A.C.G.
17 Oct.	12.10 pm	"		28.92	* ↓	+15.2	SSE	6	o	10	st.			Minimum 16th–17th +13.5. Thick blizzard.	A.C.G.
	7.40 pm	"		28.94	* ↓	+16	SSE	6	o	10	st.			thick blizzard all day	A.C.G.
18 Oct	9.50 am	"		28.90	*	+12.7	SE	4	o	10	st.			Minimum 17–18th +10. Still thick & snowing but not drifting. Bluff visible	A.C.G.
	1.30 pm	"		28.90	↓	+12	ESE	6–7	o	10	st.			Very thick at times in morning. Now White Island is just visible.	A.C.G.
	4.00 pm	"		28.95	* ↓	+13.7	SE	4	oc.	10	st.			Clearing.	D.C.G. [?]
	8.50 pm	"		28.91	↓	+5.2	ESE	4	oc	10	st.			W^n Mts visible. Thick to SE & generally threatening sky still	D.C.G. [?]

DAY.	HOUR	POSITION. Lat.	Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	Kind	Direction from upper	lower	BRITISH ANTARCTIC EXPEDITION, 1910. REMARKS.	OBSERVER'S INITIALS.
19 Oct	9.20 am	Hut Pt		28·92		+7·2	NW	1	bc	4	ci st			Minimum 18–19th Zero.	ACG
	1.15 pm	"		28·94		+13·5	Nly	lt airs	bc	6	st & ci st			Clouding up towards E & SE. Strongest Sly on Crater Hill.	ACG
	9.00 pm	"		28·92		+7	Nly	1	b.c.	3	st			Stratus South. Bluff clear	ACG
20 Oct	10.10 am	"		28·94		+17·7	Nly	1	bc	2	ci st				ACG
	2.40 pm	"		28·95		+12·2	-	c	bc	3	ci st			Beautifully clear & warm.	ACG
	7.40 pm	"		29·01		+13·2	ENE	2	bc	4	ci st			First Summer Day. Minimum 20th–21st −2	ACG
21 Oct	7.20 am	"		29·00		+7	ENE	4	bc	8	ci st			Strong wind & some drift during the night.	ACG
	12.35 pm	"		29·08		+6	E	5	oc	10	ci st			Clear over Corner Camp, Terror & Erebus. Summits of W. Mts in thick cloud. Slight surface drift.	ACG
	3.45 pm	"		29·05		+6·5	E	3	oc	10	ci st			Slight surface drift.	ACG
	7.45 pm	"		29·05		+5	E	3	oc	10	ci st			Minimum 21st–22nd Zero.	ACG
22 Oct	8.15 am	"		28·90		0	E	4	o	10	ci st				ACG

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	Direction from upper	Direction from lower	REMARKS.	OBSERVER'S INITIALS.
24 Oct.	3 pm	Hut Point		28·89		+2	Sly	[illegible]	b.	3	Str.			Heavy bank of cloud or fog over Bluff. Minimum since Oct. 22 −1.	ALG
	4.30 pm	"		28·92		+8	ESE	2	o	10	Str			Suddenly become overcast in less than an hour.	ALG
	8.20 pm	"		28·93	↓	+2·5	SE	3-4	o.u.	8	Str			Very black over Bluff (obscured) and White Island (visible). Clear to E and N. Puffs of surface ↓.	ALG
25 Oct.	9.35 am	"		28·94		+2	SE	3	bc	3	ACSt			Minimum 24th–25th −12. Cleared by 2 am.	ALG.
	8 pm		.	28·94		−5	SE	5		8	Alt St*			* Mostly Alto-stratus from S–N some Ci St. over the land	SLA
26th Oct	7.30 am	"	"	28·90		+4	SE	3	<	8	Alt St / Cir Str			As above also very delicate Ci St. Low. Str over land	SLA
	1.45 pm	"	"	28·90		+8	SE	3.		10	Alt St			Min for 25–26th −7°F.	
	7.40 pm	"	"	28.85		+1	LA	LA		9	Cir / Ci St			Low stratus and Cirro-stratus Lot of Mirage over West also Bluff wonderfully miraged. For the last two days the Bluff has had a low stratus cloud running West along the peaks of the range At times obscured but clearing at intervals.	SLA

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	CLOUD. Direction from upper	CLOUD. Direction from lower	REMARKS.	OBSERVER'S INITIALS.
27th Oct	8am	Hut	Point	28·79	–	+4	SE	1	Cloudy	10	Str.	—		Min for night – 5°F.	E.L.A.
	1·30pm	〃	〃	28·75	–	+2	W.SW	1	Cloudy	10	Alt & low str				
	8·30pm	〃	〃	28·70		+3	–	LA	Cloudy	8	Alt str			Over land heavy stratus to South	E.L.A.
28 Oct.	8·30am	〃		28·60		+8	–	c.	bc	2	cistr			Beautifully clear. Minimum 27th–28th –7.	ACG
	2·5pm	〃		28·56	↓	+3	ENE	4	b	0	–			Slight surface drift.	ACG
	8·45pm	〃		28·56		+3·5	–	c	b	2	cumulus stratus			Bluff cap on. First cumulus on Barrier to E of Bluff. Stratus over open water to N.	ACG
29 Oct.	8·00am	〃		28·53		+3	ENE	2	oc	7	str			Bluff obscured & thick to S. Minimum 28th–29th –15·5.	ACG
	2·00pm	〃		28·60		+4·5	SSE	1	bc	4	str			All beyond White Island obscured – also Erebus & Terror.	ACG
	7·30pm	〃		28·56		+3·5	–	c	oc	10	St. [illegible]			Stratus to S. The rest thinly overcast.	ACG
30 Oct	8·20am	〃		28·58		+5	–	c	oc	10	Str			Minimum 29th–30th –7	ACG
	1·00pm			28·52		+9	N	2	oc	7	Str			Ross Island is nearly clear – cloudy to S & SE.	ACG
	4·45pm			28·51		+5·7	–	c	oc	10	Str			White Island obscured, thick to South.	ACG

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION Lat.	POSITION Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	Direction from upper	Direction from lower	REMARKS.	OBSERVER'S INITIALS.
Oct. 30	7.45pm	Hut Pt.		28.51	-	+2.5	-	c	bc.	5	Str.			There has been appearance of thick fog on Barrier which is now clearing rapidly. White Island visible –	ALG
31.	8.45am	〃		28.54	✱	+6	-	c	o	10	Str			Minimum 30–31st. None. Thick fog of very small crystals of snow –	ALG
	12.05pm	〃		28.54	[symbol]	-1	4-5	ESE	oc	7	Str			At 9 am. wind came away with snow & drift. Now clearing all round –	ALG
	3.45pm	〃		28.55		+9.2	Nly	Lt airs	bc	3	Str			Wind & drift stopped about 1 pm. Appearance of fog on the Barrier remains.	ALG
	8.10pm			28.56	✱	+4	Sly	Lt airs	o	10	Str			Snowing heavily, small crystals. Minimum 31st – 1st – 8.	ALG
Nov. 1.	9.40am	〃		28.67		+4	SE	1	bc	3	Str			Stratus beyond Bluff & over Western Mts. Otherwise clear.	ALG
	12.00	〃		28.67		+5	ESE	2	bc	4	Str			Stratus beyond Bluff & over Western Mts Otherwise clear.	ALG

DAY.	HOUR	POSITION.		Bar	Hyps-omet-er	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from upper	Direction from lower

BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.	OBSERVER'S INITIALS.

DAY.	HOUR	POSITION. Lat.	Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	Kind	Direction from upper	lower